

Comparisons of Job Characteristics

Focus Occupation: [Maintenance Workers, Machinery \(49-9043\)](#)

Associated Occupation: [Automotive Service Technicians and Mechanics \(49-3023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	20.8	21.8	0	Current knowledge level may be sufficient
Customer and Personal Service	11.3	15.1	2.5	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	12.9	10.8	<	Expanded education and/or training may be required
Physics	4.3	8.6	7.2	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	12.7	11.8	0	Current skill level may be sufficient
Equipment Maintenance	3.5	11.6	11.9	0	Current skill level may be sufficient
Troubleshooting	4.5	11.4	11.0	0	Current skill level may be sufficient
Operation and Control	5.4	11.1	10.6	0	Current skill level may be sufficient
Operation Monitoring	6.6	10.9	11.9	0	Current skill level may be sufficient
Quality Control Analysis	5.9	10.4	10.0	0	Current skill level may be sufficient
Equipment Selection	3.3	9.4	8.5	<	A higher skill level may be required
Installation	1.7	6.4	4.3	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 90			
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Extent Flexibility	4.8	14.4	7.9	<<	Extensive improvement in abilities may be required
Control Precision	6.6	13.5	9.5	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	12.6	9.4	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	12.4	9.7	<	Some improvement in abilities may be required
Arm-Hand Steadiness	6.8	12.2	10.7	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	12.0	8.2	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	11.8	6.6	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	10.6	7.9	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	5.9	4.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 74
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Lubricate machinery, equipment, or parts	59	
Maintain repair records	65	
Move or fit heavy objects	8	
Operate hoist, winch, or hydraulic boom	34	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Read work order, instructions, formulas, or processing charts	9	
Repair or replace malfunctioning or worn mechanical components	62	

Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use hand or power tools	2
Use knowledge of metric system	39
Use pneumatic tools	66
Use precision measuring devices in mechanical repair work	61

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 84

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)

Tools and Technologies	Exclusivity
Bandsaws and accessories	26
Computers	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Dispensing tools	6
Face and head protection	7
Fastener setting tools	12
Forming tools	2
Hearing protectors	12
Holding and clamping tools	3
Industrial trucks	10
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Pneumatic tools	8
Power tools	2
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.